

**Session Program**

**24-25 Sept 2022**

**XV Polish Workshop on Relativistic Heavy-Ion  
Collisions**

***Theory***

Institute of Theoretical Physics, University of Wrocław  
Institute of Theoretical Physics, University of Wrocław pl. M. Borna 9 50-205 Wrocław, Poland

# Sunday 25 September

09:30

## Theory: Hydro

**Session** |

**Location:** Institute of Theoretical Physics, University of Wrocław, Institute of Theoretical Physics, University of Wrocław pl. M. Borna 9 50-205 Wrocław, Poland

09:30–09:50

### Multicomponent relativistic dissipative fluid dynamics from the Boltzmann equation

**Speaker**

Dr Etele Molnar

09:50–10:10

### Canonical and phenomenological formulations of spin hydrodynamics

**Speaker**

Asaad Daher

10:10–10:30

### Spin alignment of vector mesons as a probe of spin hydrodynamics and freeze-out

**Speaker**

Kayman Gonçalves

10:30–10:50

### The hydrodynamic expansion through regularized moments

**Speaker**

Leonardo Tinti

10:50

11:20

## Theory

**Session** |

**Location:** Institute of Theoretical Physics, University of Wrocław, Institute of Theoretical Physics, University of Wrocław pl. M. Borna 9 50-205 Wrocław, Poland

11:20–11:40

### Novel features of energy fluctuations and baryon number fluctuations in a subsystem of hot and dense relativistic gas.

**Speaker**

Arpan Das

11:40–12:00

### Thermodynamics of a coupled channel system

**Speaker**

Dr Pok Man Lo

12:00–12:20

### Thermodynamics of quark matter with multi-quark clusters in an effective Beth-Uhlenbeck type approach

**Speaker**

Mateusz Cierniak

12:20–12:40

### Quark-gluon plasma and the charm quark production in the quasiparticle approach

**Speaker**

Ms Valeriya Mykhaylova

12:40-13:00

**Driving chiral phase transition with ring diagram**

**Speaker**

Mr Michal Szymanski

13:00-13:20

**Constraining the mass of sexaquark from neutron star observables**

**Speaker**

Dr Mahboubeh ShahrbaF

13:20